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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 3212-01-WO	FOR FURTHER ACTI	ON s	See Form PCT/IPEA/416					
International application No.	international filing date (day	//month/year)	Priority date (day/month/year)					
PCT/US2004/003572	04.02.2004		07.02.2003					
International Patent Classification (IPC) or national classification and IPC C10M169/00								
Applicant THE LUBRIZOL CORPORATION et al.								
Authority under Article 35 and ti	ansmitted to the applicant a	CCOlding to Attions co.	International Preliminary Examining					
2. This REPORT consists of a total			•					
3. This report is also accompanied	by ANNEXES, comprising:							
a. 🔲 sent to the applicant and	a Cont to the applicant and to the International Bureau) a total of sheets, as follows:							
and/or sheets conta	The state of the pasis of this report							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
1	— unit of the state of tindicate type and number of electronic carrier(s)) , containing a							
	b. (sent to the International Bureau only) a total of (Indicate type and Indinate of Control of Supplemental sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
Box Relating to Sequen	ce fishing (see occion our	0, 11,0 , 10 ,11,11,11	•					
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4. This report contains indications	relating to the following ite	ms:						
☑ Box No. I Basis of the	opinion							
☐ Box No. II Priority								
☑ Box No. III Non-establis	hment of opinion with regar	d to novelty, inventive	step and industrial applicability					
☐ Box No. IV Lack of unity	of invention		a di dinama					
☐ Box No. V Reasoned s applicability	- a visit of the property inventive step or industrial							
☐ Box No. VI Certain doc								
	cts in the international appli							
☐ Box No. VIII Certain obs	☐ Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of the	nis report					
Date of Submission of the demand								
02.09.2004		18.01.2005						
Name and mailing address of the intern	ational	Authorized Officer	outher Patenten					
preliminary examining authority:			Sour M					
European Patent Office D-80298 Munich		Kazemi, P						
Tel. +49 89 2399 - 0 Tx: Fax: +49 89 2399 - 4465	523656 epmu a	Telephone No. +49 89	2399-8592					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/003572

_	Bo	x No. I Basis of the report				
1.	Wit	th regard to the language , this report is based on the international application in the language in which it was d, unless otherwise indicated under this item.				
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)				
2.	. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	Des	cription, Pages				
1-7		as originally filed				
	Clai	ims, Numbers				
1-33		as originally filed				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.	☐ The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):					
1.	Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):				
	*	If item 4 applies, some or all of these sheets may be marked "superseded "				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/003572

		No. III Non-establishment of licability	f opi	nion with regard to novelty, inventive step and industrial		
1.	The obv	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,				
	\boxtimes	claims Nos. 18-29	laims Nos. 18-29			
		because:	ecause:			
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	\boxtimes	no international search report has been established for the said claims Nos. 18-29				
		the nucleotide and/or amino aci C of the Administrative Instructi	e and/or amino acid sequence listing does not comply with the standard provided for in Annex ninistrative Instructions in that:			
		the written form		has not been furnished		
				does not comply with the standard		
		the computer readable form		has not been furnished		
				does not comply with the standard		
		the tables related to the nucleo not comply with the technical re	es related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do ply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.			
		See separate sheet for further	detai	ils		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/003572

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 3,17,33

No: Claims 1,2,4-16,30-32

Inventive step (IS) Yes: Claims

No: Claims 3,17,33

Industrial applicability (IA) Yes: Claims 1-17,30-33

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item III.

The dependent claims 18-29 are unclear (they refer to claims 19 and 28), the reference is clearly in error, but it is not possible to know what the correct reference should be. Since the claims lack a counterpart in the description, i.e. are not supported by the description under Article 6 PCT, it has not been possible to carry out a meaningful search and there is thus no need to examine these claims.

Re Item V.

1. The following documents are referred to in this communication:

D1: US 5 037 566

D2: US 4 705 571

D3: US 5 050 959

D4: US-A-5 276 757

D5: WO 01/85879

D6: US-A-4 701 016

D7: EP-A-0 889 343

D8: DE-A-36 22 211

The passages cited in the International Search Report are referred to.

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 2, 4-16, 30-32 is not new in the sense of Article 33(2) PCT.

Document D1 discloses a stable dispersion of synthetic lubricating fluid (PAO), PTFE, amine phosphate (antioxidant and wear inhibitor), polybutene, polypropylene glycol and hydrophobic fumed silica. The subject-matter of claims 1, 2, 4-14, 30 and 32 is not new over D1.

Document D2 discloses a filling composition for optical cable (light waveguide) comprising polyglycol or polyolefin, fumed silica, hydrogen containing silane compound and antioxidant. The subject-matter of claims 1, 2, 6-9, 11, 14-16, 30

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and 31 is not novel over D2.

Document D3 discloses a fibre optic lubricant comprising polybutene, hydrophobic silica, PTFE, amine phosphate and PEG. Amine phosphate can be considered as an antioxidant (see D1). The subject-matter of claims 1, 2, 4-12, and 14 is not novel over D3.

3. The subject-matter of claims 3, 17 and 33 being novel over the said citations does not involve an inventive step therefore not meeting the requirements of Article 33(3) PCT.

Claim 3 concerns an embodiment comprising hydrophilic silica in addition to synthetic oil, coupling agent and antioxidant.

Claim 17 concerns an embodiment comprising as base oil polydecene and polybutene, hydrophilic silica and polyglycol along with antioxidant.

Claim 33 concerns an embodiment comprising a synthetic oil, fumed silica, antioxidant, coupling agent and a styrene butadiene polymer.

The following documents disclose some of these features in combination:

Document D4 discloses an optical fibre cable filling composition comprising base oil (polydecene and polybutene), fumed silica (hydrophobic) and antioxidant. No glycol or coupling agent is referred to.

Document D5 discloses synthetic lubricant for food processing comprising hydrogenated PAO, styrene-EP-copolymer, petroleum hydrocarbons, fumed silica, propylene glycol and PTFE. No antioxidant is used.

D6 discloses a grease as a cable filling material comprising a base oil, hydrophobic or hydrophilic silica, styrene rubber and antioxidant. No glycol or coupling agent is used (the document is cited in the application).

D7 discloses a filling for optical fibre cable comprising two hydrocarbons (e.g. PAOs), Kraton copolymer, silica (hydrophilic and/or hydrophobic) and antioxidant. No reference is made to polyglycol or coupling agent.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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D8 discloses a cable filling material comprising polyglycol as base oil, hydrophilic and/or hydrophobic silica and antioxidant. No further coupling agent is used, probably not necessary.

As can be seen the most of the documents are concerned with similar problems, ie. greases for optical cables and any of these documents can be taken as the closest prior art.

Although the compatibility with polypropylene has been cited as a problem underlying the invention, there is no data or no example in the application as filed to show that the compositions according to claims 3, 17 or 33 would provide any advantages over the compositions of the prior art (D1-D8) or slightly modified compositions that are possible to arrive at merely by trial and error or by combining the teachings in an obvious way.

Re Item VI.

The cited document WO03/085036 published on 16.10.2003 (claiming priority date of 01.04.2002, having a filing date of 25.03.2003) does not constitute prior art under Rule 64.1 PCT, but it discloses subject-matter that is relevant for claims 1, 2, 4-9, 11-16 and 30-33. The validity of the priority claim has not been checked.

Re Item VII.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the cited documents (except D6) is not mentioned in the description, nor are these documents identified therein.